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**LIST OF PRIOR ART CITED BY APPLICANT**

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NOV 15 2007

Application Number	10/562,269
Filing Date	February 12, 2007
Inventor	Gary E. GILBERT, et al.
Group Art Unit	
Examiner Name	
Attorney Docket Number	US 1451/05 (BWH)

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**U.S. PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Number	Kind Code <sup>2</sup> (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		4,725,442		Haynes	02/16/1988	
		5,120,537		Esmon et al.	06/09/1992	
		5,258,497		Reutelingsperger et al.	11/02/1993	
		5,344,758		Krilis et al.	09/06/1994	
		5,455,031		Ceriani et al.	10/03/1995	
		5,505,955		Peterson et al.	04/09/1996	
		5,632,986		Tait et al.	05/27/1997	
		5,667,797		Peterson et al.	09/16/1997	
		5,783,662		Janmey et al.	07/21/1998	
		5,846,743		Janmey et al.	12/08/1998	
		5,849,600		Nixon et al.	12/15/1998	
		5,874,409		Victoria et al.	02/23/1999	
		5,955,437		Reutelingsperger	09/21/1999	
		5,972,337		Ceriani et al.	10/26/1999	
		6,194,214 B1		Kraus	02/27/2001	
		6,284,475 B1		Rand	09/04/2001	
		6,410,775 B1		Victoria et al.	06/25/2002	
		2003/0022221 A1		Langit et al.	01/30/2003	

**FOREIGN PATENT DOCUMENTS**

Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
			EP 1,004,664	A1	INSERM	05/31/2000		
			WO 00/30667		Raposo et al.	06/02/2000		
			WO 03/103700	A1	U.S. DEPT. OF	12/18/2003		
			(PCT/US03/15404)		VETERANS AFFAIRS			

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		Hvarregaard J, Andersen MH, Berglund L, Rasmussen JT, Petersen TE. Characterization of glycoprotein PAS-6/7 from membranes of bovine milk fat globules. Eur. J. Biochem. 1996;240:628-636.	
		Stubbs J, Lekutis C, Singer K, Bui A, Yuzuki D, Srinivasan U, et al. cDNA cloning of a mouse mammary epithelial cell surface protein reveals the existence of epidermal growth factor-like domains linked to factor VIII-like sequences. Proc. Natl. Acad. Sci., USA 1990;87:8417-8421.	
		Couto JR, Taylor MR, Godwin SG, Ceriani RL, Peterson JA. Cloning and sequence analysis of human breast epithelial antigen BA46 reveals an RGD cell adhesion sequence presented on an epidermal growth factor-like domain. DNA Cell Biol. 1996;15(4):281-6.	
		Andersen MH, Berglund L, Rasmussen JT, Petersen TE. Bovine PAS-6/7 binds $\alpha_v\beta_5$ integrin and anionic phospholipids through two domains. Biochemistry 1997;36:5441-5446.	
		Taylor MR, Couto JR, Scallan CD, Ceriani RL, Peterson JA. Lactadherin (formerly BA46), a membrane-associated glycoprotein expressed in human milk and breast carcinomas, promotes Arg-Gly-Asp (RGD)-dependent cell adhesion. DNA Cell Biol. 1997;16(7):861-9.	
		Andersen MH, Graversen H, Fedosov SN, Petersen TE, Rasmussen JT. Functional analyses of two cellular binding domains of bovine lactadherin. Biochemistry 2000;39(20):6200-6.	
		Butler JE, Pringnitz DJ, Martens CL, Crouch N. Bovine-associated mucoprotein: I. Distribution among adult and fetal bovine tissues and body fluids. Differentiation 1980;17(1):31-40.	
		Peterson JA, Couto JR, Taylor MR, Ceriani RL. Selection of tumor-specific epitopes on target antigens for radioimmunotherapy of breast cancer. Cancer Res. 1995;55(23 Suppl):5847s-5851s.	
		Haggqvist B, Naslund J, Sletten K, Westermark GT, Mucchiano G, Tjernberg LO, et al. Medin: an integral fragment of aortic smooth muscle cell-produced lactadherin forms the most common human amyloid. Proc. Natl. Acad. Sci. U. S. A. 1999;96(15):8669-74.	
		Ensslin M, Calvete JJ, Thole HH, Sierralta WD, Adermann K, Sanz L, et al. Identification by affinity chromatography of boar sperm membrane-associated proteins bound to immobilized porcine zona pellucida. Mapping of the phosphorylethanolamine-binding region of spermadhesin AWN. Biol. Chem. Hoppe. Seyler 1995;376(12):733-8.	

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		Hanayama R, Tanaka M, Miwa K, Shinohara A, Iwamatsu A, Nagata S. Identification of a factor that links apoptotic cells to phagocytes. Nature 2002;417(6885):182-7.	
		Shi J, Gilbert GE. Lactadherin inhibits enzyme complexes of blood coagulation by competing for phospholipid binding sites. Blood 2003;101(7):2628-36.	
		Arai M, Scandella D, Hoyer L. Molecular basis of factor VIII inhibition by human antibodies. Antibodies that bind to the factor VIII light chain prevent the interaction of factor VIII with phospholipid. J. Clin. Invest. 1989;83:1978-1984.	
		Foster PA, Fulcher CA, Houghten RA, Zimmerman TS. Synthetic factor VIII peptides with amino acid sequences contained within the C2 domain of factor VIII inhibit factor VIII binding to phosphatidylserine. Blood 1990;75:1999-2004.	
		Ortel T, Devore-Carter D, Quinn-Allen M, Kane W. Deletion analysis of recombinant human factor V: Evidence for a phosphatidylserine binding site in the second C-type domain. J. Biol. Chem. 1992;267:4189-4198.	
		Gilbert GE, Furie BC, Furie B. Binding of human factor VIII to phospholipid vesicles. J. Biol. Chem. 1990;265:815-822.	
		Gilbert GE, Drinkwater D, Barter S, Clouse SB. Specificity of phosphatidylserine-containing membrane binding sites for factor VIII: Studies with model membranes supported by glass microspheres (Lipospheres). J. Biol. Chem. 1992;267:15861-15868.	
		Gilbert GE, Drinkwater D. Specific membrane binding of factor VIII is mediated by O-phospho-L-serine, a moiety of phosphatidylserine. Biochemistry 1993;32:9577-9585.	
		Comfurius P, Smeets EF, Willems GM, Bevers EM, Zwaal RFA. Assembly of the prothrombinase complex on lipid vesicles depends on the stereochemical configuration of the polar headgroup of phosphatidylserine. Biochemistry 1994;33(34):10319-10324.	
		Bardelle C, Furie B, Furie BC, Gilbert GE. Kinetic Studies of Factor VIII Binding to Phospholipid Membranes Indicate a Complex Binding Process. J. Biol. Chem. 1993;268:8815-24.	

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		Gilbert GE, Arena AA. Phosphatidylethanolamine induces high affinity binding sites for factor VIII on membranes containing phosphatidyl-L-serine. J. Biol. Chem. 1995;270:18500-18505.	
		Gilbert GE, Arena AA. Unsaturated phospholipid acyl chains are required to constitute membrane binding sites for factor VIII. Biochemistry 1998;37(39):13526-35.	
		Pratt KP, Shen BW, Takeshima K, Davie EW, Fujikawa K, Stoddard BL. Structure of the C2 domain of human factor VIII at 1.5 angstrom resolution. Nature. 1999;402(6760):439-442.	
		Macedo-Ribeiro S, Bode W, Huber R, Quinn-Allen MA, Kim SW, Ortel TL, et al. Crystal structures of the membrane-binding C2 domain of human coagulation factor V. Nature. 1999;402(6760):434-439.	
		Kim SW, Quinn-Allen MA, Camp JT, Macedo-Ribeiro S, Fuentes-Prior P, Bode W, et al. Identification of functionally important amino acid residues within the C2-domain of human factor V using alanine-scanning mutagenesis. Biochemistry 2000;39(8):1951-8.	
		Gilbert GE, Kaufman RJ, Arena AA, Miao H, Pipe SW. Four hydrophobic amino acids of the factor VIII C2 domain are constituents of both the membrane-binding and von Willebrand factor-binding motifs. J Biol Chem 2002;277(8):6374-81.	
		Peterson JA, Patton S, Hamosh M. Glycoproteins of the human milk fat globule in the protection of the breast-fed infant against infections. Biol. Neonate 1998;74(2):143-62.	
		Bever E, Comfurius P, Zwaal R. Changes in membrane phospholipid distribution during platelet activation. Biochim. Biophys. Acta 1983;736:57-66.	
		Dachary-Prigent J, Freyssinet JM, Pasquet JM, Carron JC, Nurden AT. Annexin V as a probe of aminophospholipid exposure and platelet membrane vesiculation: a flow cytometry study showing a role for free sulfhydryl groups. Blood 1993;81(10):2554-65.	
		Alberio L, Safa O, Clemetson KJ, Esmon CT, Dale GL. Surface expression and functional characterization of alpha-granule factor V in human platelets: effects of ionophore A23187, thrombin, collagen, and convulxin. Blood 2000;95(5):1694-702.	

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		Zwaal R, Comfurius P, van Deenen L. Membrane asymmetry and blood coagulation. Nature 1977;268:358-360.	
		Bevers E, Comfurius P, Van Rijn J, Hemker H, Zwaal R. Generation of Prothrombin-Converting Activity and the Exposure of Phosphatidylserine at the Outer Surface of Platelets. Eur. J. Biochem. 1982;122:429-436.	
		Seigneuret M, Devaux PF. ATP-dependent asymmetric distribution of spin-labeled phospholipids in the erythrocyte membrane: Relation to shape changes. Proc. Natl. Acad. Sci., USA 1984;81:3751-3755.	
		Tracy P, Peterson J, Nesheim M, McDuffie F, Mann K. Interaction of coagulation factor V and factor Va with platelets. J. Biol. Chem. 1979;254:10354-61.	
		Swords NA, Tracy PB, Mann KG. Intact Platelet Membranes, Not Platelet-Released Microvesicles, Support the Procoagulant Activity of Adherent Platelets. Arterioscler. Thromb. 1993;13(11):1613-1622.	
		Ahmad SS, Rawala-Sheikh R, Ashby B, Walsh PN. Platelet receptor-mediated factor X activation by factor IXa: High-affinity factor IXa receptors induced by factor VIII are deficient on platelets in Scott syndrome. J. Clin. Invest. 1989;84:824-828.	
		Gilbert GE, Sims PJ, Wiedmer T, Furie B, Furie BC, Shattil SJ. Platelet-derived microparticles express high affinity receptors for factor VIII. J. Biol. Chem. 1991;266:17261-68.	
		Comfurius P, Bevers EM, Zwaal RFA. Enzymatic synthesis of phosphatidylserine on small scale by use of a one-phase system. J. Lipid Res. 1990;31:1719-1721.	
		Hope MJ, Bally MB, Webb G, Cullis PR. Production of large unilamellar vesicles by a rapid extrusion procedure. Characterization of size distribution, trapped volume and ability to maintain a membrane potential. Biochim. Biophys. Acta 1985;812:55-65.	
		Chen P, Toribara T, Warner H. Microdetermination of phosphorus. Anal. Chem. 1956;28:1756-1758.	

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		Huang C, Mason J. Geometric packing constraints in egg phosphatidylcholine vesicles. Proc. Natl. Acad. Sci., USA 1978;75:308-310.	
		Bangham AD, Standish MM, Watkins JC. Diffusion of univalent ions across the lamellae of swollen phospholipids. J. Mol. Biol. 1965;13:238-252.	
		Pusey M, Mayer L, Wei G, Bloomfield V, Nelsestuen G. Kinetic and Hydrodynamic Analysis of Blood Clotting Factor V-Membrane Binding. Biochemistry 1982;21:5262-5269.	
		Abbott A, Nelsestuen G. Association of a Protein with Membrane Vesicles at the Collisional Limit: Studies with Blood Coagulation Factor Va Light Chain Also Suggest Major Differences between Small and Large Unilamellar Vesicles. Biochemistry 1987;26:7994-8003.	
		Bloom JW. The interaction of rDNA factor VIII, factor VIII <sub>des</sub> -797-1562 and factor VIII <sub>des</sub> -797-1562 derived peptides with phospholipid. Throm. Res. 1987;48:439-448.	
		Epand RM, Stevenson C, Bruins R, Schram V, Glaser M. The chirality of phosphatidylserine and the activation of protein kinase C. Biochemistry 1998;37(35):12068-73.	
		Berden JA, Barker RW, Radda GK. NMR studies on phospholipid bilayers. Some factors affecting lipid distribution. Biochim. Biophys. Acta 1975;375(2):186-208.	
		Barsukov LI, Victorov AV, Vasilenko IA, Evstigneeva RP, Bergelson LD. Investigation of the inside-outside distribution, intermembrane exchange and transbilayer movement of phospholipids in sonicated vesicles by shift reagent NMR. Biochim. Biophys. Acta 1980;598(1):153-68.	
		Litman BJ. Determination of molecular asymmetry in the phosphatidylethanolamine surface distribution in mixed phospholipid vesicles. Biochemistry 1974;13(14):2844-8.	
		Koynova RD, Tenchov BG. Effect of ion concentration on phosphatidylethanolamine distribution in mixed vesicles. Biochim. Biophys. Acta 1983;727(2):351-6.	

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		Lentz BR, Litman BJ. Effect of head group on phospholipid mixing in small, unilamellar vesicles: mixtures of dimyristoylphosphatidylcholine and dimyristoylphosphatidylethanolamine. Biochemistry 1978;17(25):5537-43.	
		Nordlund JR, Schmidt CF, Dicken SN, Thompson TE. Transbilayer distribution of phosphatidylethanolamine in large and small unilamellar vesicles. Biochemistry 1981;20(11):3237-41.	
		Tait JF, Gibson D. Phospholipid binding of annexin V: effects of calcium and membrane phosphatidylserine content. Arch. Biochem. Biophys. 1992;298(1):187-91.	
		Andree H, Reutelingsperger C, Hauptmann R, Hemker H, Hermens W, Willems G. Binding of vascular anticoagulant a (VACa) to planar phospholipid bilayers. J. Biol. Chem. 1990;265:4923-4928.	
		Andree HA, Stuart MC, Hermens WT, Reutelingsperger CP, Hemker HC, Frederik PM, et al. Clustering of lipid-bound annexin V may explain its anticoagulant effect. J. Biol. Chem. 1992;267(25):17907-12.	
		Swaerjo MA, Concha NO, Kaetzel MA, Dedman JR, Seaton BA. Ca <sup>2+</sup> -bridging mechanism and phospholipid head group recognition in the membrane-binding protein annexin V. Nat. Struct. Biol. 1995;2:968-974.	
		Pigault C, Follenius-Wund A, Schmutz M, Freyssinet JM, Brisson A. Formation of two-dimensional arrays of annexin V on phosphatidylserine-containing liposomes. J. Mol. Biol. 1994;236(1):199-208.	
		Koopman G, Reutelingsperger CP, Kuijten GA, Keehnen RM, Pals ST, van Oers MH. Annexin V for flow cytometric detection of phosphatidylserine expression on B cells undergoing apoptosis. Blood 1994;84(5):1415-20.	
		Connor J, Bucana C, Fidler IJ, Schroit AJ. Differentiation-dependent expression of phosphatidylserine in mammalian plasma membranes: Quantitative assessment of outer-leaflet lipid by prothrombinase complex formation. Proc. Natl. Acad. Sci. USA 1989;86:3184-3188.	
		Poste G, Papahadjopoulos D. Lipid vesicles as carriers for introducing materials into cultured cells: influence of vesicle lipid composition on mechanism(s) of vesicle incorporation into cells. Proc. Natl. Acad. Sci. U. S. A. 1976;73(5):1603-7.	

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First Named Inventor	Gary E. GILBERT et al.
Group Art Unit	
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		Batzri S, Korn ED. Interaction of phospholipid vesicles with cells. Endocytosis and fusion as alternate mechanisms for the uptake of lipid-soluble and water-soluble molecules. J. Cell Biol. 1975;66(3):621-34.	
		Chang CP, Zhao J, Wiedmer T, Sims PJ. Contribution of platelet microparticle formation and granule secretion to the transbilayer migration of phosphatidylserine. J. Biol. Chem. 1993;268:7171-7178.	
		McIntyre JC, Sleight RG. Fluorescence Assay for Phospholipid Membrane Assymetry. Biochemistry 1991;30:11819-11827.	
		Lawler J, Hynes RO. An integrin receptor on normal and thrombasthenic platelets that binds thrombospondin. Blood 1989;74(6):2022-7.	
		Beyers E, Wiedmer T, Comfurius P, Shattil S, Weiss H, Zwaal R, et al. Defective Ca <sup>2+</sup> -Induced Microvesiculation and Deficient Expression of Procoagulant Activity in Erythrocytes From a Patient With a Bleeding Disorder: A Study of the Red Blood Cells of Scott Syndrome. Blood 1992;79:380-388.	
		Jain MK, Rogers J, Marecek JF, Ramirez F, Eibl H. Effect of the structure of phospholipid on the kinetics of intravesicle scooting of phospholipase A2. Biochim. Biophys. Acta 1986;860(3):462-74.	
		Newburg DS, Peterson JA, Ruiz-Palacios GM, et al. Role of human-milk lactadherin in protection against symptomatic rotavirus infection. Lancet. 1998;351:1160-1164.	
		Tait JF, Gibson D, Fujikawa K. Phospholipid binding properties of human placental anticoagulant protein-1, a member of the lipocortin family. J Biol Chem. 1989;264:7944-7949.	
		Crompton MR, Moss SE, Crompton MJ. Diversity in the lipocortin/calpactin family. Cell. 1988;55:1-3.	
		Tait JF, Sakata MS, McMullen BA, et al. Placental anticoagulant proteins: Isolation and comparative characterization of four members of the lipocortin family. Biochem. 1988;27:6268-6276.	

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		Gilbert GE, Arena AA. Activation of the factor VIIIa-factor IXa enzyme complex of blood coagulation by membranes containing phosphatidyl-L-serine. J Biol Chem. 1996;271:11120-11125.	
		Johnson SM, Bangham AD, Hill MW, Korn ED. Single bilayer liposomes. Biochim Biophys Acta. 1971;233:820-826.	
		Neuenschwander PF, Morrissey JH. Deletion of the membrane anchoring region of tissue factor abolishes autoactivation of factor VII but not cofactor function. Analysis of a mutant with a selective deficiency in activity. J Biol Chem. 1992;267:14477-14482.	
		Lollar P, Fass DN. Inhibition of activated porcine factor IX by dansyl-glutamyl-glycyl-arginyl-chloromethylketone. Arch Biochem Biophys. 1984;233:438-446.	
		Govers-Riemslog JW, Janssen MP, Zwaal RF, Rosing J. Prothrombin activation on dioleoylphosphatidylcholine membranes. Eur J Biochem. 1994;220:131-138.	
		Ueno M, Tanford C, Reynolds JA. Phospholipid vesicle formation using nonionic detergents with low monomer solubility. Kinetic factors determine vesicle size and permeability. Biochem. 1984;23:3070-3076.	
		Mann KG, Nesheim ME, Church WR, Haley P, Krishnaswamy S. Surface-dependent reactions of the vitamin K-dependent enzyme complexes. Blood. 1990;76:1-16.	
		Freyssinet JM, Gauchy J, Cazenave JP. The effect of phospholipids on the activation of protein C by the human thrombin-thrombomodulin complex. Biochem J. 1986;238:151-157.	
		Suzuki K, Stenflo J, Dahlback B, Teodorsson B. Inactivation of human coagulation factor V by activated protein C. J Biol Chem. 1983;258:1914-1920.	
		Connor J, Schroit A. Transbilayer movement of phosphatidylserine in erythrocytes: Inhibition of transport and preferential labeling of a 31000-dalton protein by sulfhydryl reactive reagents. Biochem. 1988;27:848-851.	

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		Connor J, Bucana C, Fidler IJ, Schroit AJ. Differentiation-dependent expression of phosphatidylserine in mammalian plasma membranes: Quantitative assessment of outer-leaflet lipid by prothrombinase complex formation. Proc Natl Acad Sci USA. 1989;86:3184-3188.	
		Fadok VA, Voelker DR, Campbell PA, et al. Exposure of phosphatidylserine on the surface of apoptotic lymphocytes triggers specific recognition and removal by macrophages. J Immunol. 1992;148:2207-2216.	
		van Heerde WL, Poort S, van 't Veer C, Reutelingsperger CP, de Groot PG. Binding of recombinant annexin V to endothelial cells: effect of annexin V binding on endothelial-cell-mediated thrombin formation. Biochem J. 1994;302 ( Pt 1):305-312.	
		London F, Ahmad SS, Walsh PN. Annexin V inhibition of factor IXa-catalyzed factor X activation on human platelets and on negatively-charged phospholipid vesicles. Biochem. 1996;35:16886-16897.	
		Nimpf J, Bevers EM, Bomans PH, et al. Prothrombinase activity of human platelets is inhibited by beta 2-glycoprotein-I. Biochim Biophys Acta. 1986;884:142-149.	
		Mori T, Takeya H, Nishioka J, Gabazza EC, Suzuki K. beta 2-Glycoprotein I modulates the anticoagulant activity of activated protein C on the phospholipid surface. Thromb Haemost. 1996;75:49-55.	
		McNeil HP, Simpson RJ, Chesterman CN, Krilis SA. Anti-phospholipid antibodies are directed against a complex antigen that includes a lipid-binding inhibitor of coagulation: beta 2-glycoprotein I (apolipoprotein H). Proc Natl Acad Sci U S A. 1990;87:4120-4124.	
		Takeya H, Mori T, Gabazza EC, et al. Anti-beta2-glycoprotein I (beta2GPI) monoclonal antibodies with lupus anticoagulant-like activity enhance the beta2GPI binding to phospholipids. J Clin Invest. 1997;99:2260-2268.	
		Bancsi LF, van der Linden IK, Bertina RM. Beta 2-glycoprotein I deficiency and the risk of thrombosis. Thromb Haemost. 1992;67:649-653.	
		Ceriani RL, Sasaki M, Sussman H, Wara WM, Blank EW. Circulating human mammary epithelial antigens in breast cancer. Proc Natl Acad Sci U S A. 1982;79:5420-5424.	

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		Enoch HG, Strittmatter P. Formation of properties of 1000-Å-diameter, single-bilayer phospholipid vesicles. Proceeding of the National Academy of Sciences, USA 1979;76:145-149.	
		Larocca et al. <u>A Mr 46,000 human milk fat globule protein that is highly expressed in human breast tumors contains factor VIII-like domains</u> . Cancer Res. 15 September 1991, Vol. 51, No. 18, pages 4994-4998.	
		Ortel et al. <u>Characterization of an acquired inhibitor to coagulation factor V. Antibody binding to the second C-type domain of factor V inhibits the binding of factor V to phosphatidylserine and neutralizes procoagulant activity</u> . J. Clin. Invest. Dec. 1992, Vol. 90, pages 2340-2347.	
		Aoki et al., "Stage specific expression of milk fat globule membrane glycoproteins in mouse mammary gland: comparison of MFG-E8, butyrophilin, and CD36 with a major milk protein, beta casein", Biochimica et Biophysica Acta 1334: 182-190 (1997).	
		Kim D.H, Azuma N, Tanaka H, Kanno C. Structures of the N-linked sugar chains in the PAS-6 glycoprotein from the bovine milk globule membrane. Glycoconjugate Journal (1998) 15: 361-369.	
		Shi J., Heegaard C.W., Rasnussen J.T., Gilbert G.E. Lactadherin binds selectively to membranes containing phosphatidyl-L-serine and increased curvature. Biochimica et Biophysica Acta 1667 (2004) 82-90.	
		Shi J, Gilbert GE. Lactadherin inhibits enzyme complexes of blood coagulation by competing for phospholipid binding sites. Blood December 2002;100(11):262a, American Society of Hematology Abstract (1 page).	

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